

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace, without prejudice, all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

Claims 1 to 5 (Canceled).

6. (Currently Amended) A control unit for actuating a passenger protection arrangement, comprising:

a processor; and

an electronic safety switch that, as a function of a signal of an acceleration sensor system, enables an output stage to be actuated by the processor, the enabling occurring independently of the processor, the processor actuating the output stage as a function of the signal, wherein the safety switch analyzes an integrated acceleration signal as the signal of the acceleration sensor system, wherein the acceleration sensor system includes an integrator for outputting the integrated acceleration signal, the integrator configured to generate the integrated acceleration signal independently of the processor.

7. (Canceled).

8. (Previously Presented) The control unit as recited in Claim 6, further comprising:
a high pass filter for filtering the integrated acceleration signal.

9. (Withdrawn) An acceleration sensor system, comprising:
a housing;
a sensor element provided in the housing;
an analog-to-digital converter provided in the housing; and
an integrator provided in the housing and for integrating an acceleration signal.

10. (Withdrawn) The acceleration sensor system as recited in Claim 9, further comprising:

a high pass filter for filtering the acceleration signal.

11. (Previously Presented) The control unit as recited in Claim 6, wherein the safety switch executes watchdog functions for the processor.
12. (Withdrawn) The acceleration sensor system as recited in Claim 9, further comprising:
 - an amplifier provided in the housing.
13. (New) The control unit as recited in Claim 6, wherein the processor analyzes the integrated acceleration signal in parallel with the electronic safety switch, which performs a plausibility check on a decision by the processor to actuate the output stage as a function of the integrated acceleration signal, the electronic safety switch disabling the output stage from being actuated by the processor when the plausibility check fails.
14. (New) The control unit as recited in Claim 13, wherein the electronic safety switch utilizes a different analysis technique from that of the processor in analyzing the integrated acceleration signal.
15. (New) The control unit as recited in Claim 14, wherein the analysis technique utilized by the electronic safety switch includes comparisons to fixed threshold values.